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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/593,591	06/	13/2000	Gary K. Michelson	101.0078-00000	5619	
22882	7590	06/07/2006		EXAMINER		
MARTIN &		PREBILIC	PREBILIC, PAUL B			
1557 LAKE HARTVILL		•		ART UNIT	PAPER NUMBER	
	•			3738		
			DATE MAILED: 06/07/2000	DATE MAILED: 06/07/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)					
		09/593,591	MICHELSON, GARY K.					
		Examiner	Art Unit					
		Paul B. Prebilic	3738					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 🏹	Responsive to communication(s) filed on 04 f	November 2005.						
•	•	s action is non-final.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) See Continuation Sheet is/are pending in the application. 4a) Of the above claim(s) See Continuation Sheet is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) See Continuation Sheet is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 								
Priority (under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) Notice 3) Information	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date various.	4) Interview Summal Paper No(s)/Mail 5) Notice of Informal 6) Other:		152)				

Continuation of Disposition of Claims: Claims pending in the application are 1,2,4,5,7-20,22-30,32-44,46,47,49-86,88,89,91-129,148-164,166,168-184,186,188-204,206,208-224,226,228-264,266 and 268-282.

Continuation of Disposition of Claims: Claims withdrawn from consideration are 43,44,46,47,49-84,153,154,183,184,186,188-202 and 243-262.

Continuation of Disposition of Claims: Claims rejected are 1,2,4,5,7-20,22-30,32-42,85,86,88,89,91-129,148-152,155-164,166,168-182,186,203,204,206,208-224,226,228-242,263,264,266 and 268-282.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 30, 2004 has been entered.

Election/Restrictions

Claims 43, 44, 46, 47, 49-84, 153, 154, 183, 184, 186, 188-202, and 243-262 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on January 26, 2005.

Claim Objections

Claim 2 is objected to because of the following informalities:

On line 2 of claim 2, "mid-longitudina" is misspelled. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-2, 4, 5, 7-20, 22, 25, 30, 32-35, 85, 86, 88, 89, 91-106, 109, 114-119, 127-129, 148, 158, 163, 164, 171, 174, 175, 179, 180, 203, 204, 206, 208-211, 213-215, 219, 220, 223, 224, 226, 228-231, 233-235, 239, 240, 263, 264, 266, 268-271, 273-275, 279, and 280 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boyle et al (US 6,277,149) in view of Thalgott (US 5,865,845). Boyle discloses a bone ring obtained from a long bone (Figures 5, 10, 12, and column 2, lines 28-55). It can be taken from the long bone by parallel cuts and formed into any shape; see column 4, lines 29-57, particularly lines 54-57. However, Boyle does not disclose the particular structure of parallel sides and non-linear trailing end between parallel lines as claimed.

However, Thalgott teaches that such a prosthetic intervertebral disc shape was known to the same art; see Figures 2, 4, 6, and 8. Therefore, it is the Examiner's position that it would have been obvious to an ordinary artisan to form the Boyle device into the shape disclosed by Thalgott so that advantages taught by Thalgott (see column 1, line 11 to column 2, line 20) can be incorporated into Boyle's invention.

The modifier "generally" for straight is considered a broad term that is reads on the disclosure of Figures 10 and 12 of Boyle, which is slightly curved. Alternatively, the new

Regarding claims 25 and 109, the plural openings are the pores in the bone that are naturally present in such material.

"generally straight" limitation reads on the ridges (24) and grooves (28) or equivalent of

Boyle, which elements run alongside the perimeter of the trailing edge.

Claims 26-29, 110-113, 149-152, 155-157, 159-162, 172, 177, 178, 182, 212, 217, 218, 222, 232, 237, 238, 242, 272, 277, 278, and 282 are rejected under 35 U.S.C.

103(a) as being unpatentable over Boyle et al (US 6,277,149) and Thalgott as applied in the previous rejection, further in view of Kozak et al (US 5,397,364). Boyle fails to disclose the screw holes and screws as claimed. However, Kozak teaches that it was known to put multiple bone screws in similar implants as a means to secure them; see Figures 24 and 25 and the textual description of these figures. Therefore, it is the Examiner's position that it would have been obvious to use bone screws and have holes for them in the Boyle implant for the same reasons that Kozak uses the same: to secure the implant to the adjacent bone.

With regard to claims 28 and 29, it is the Examiner's position that it would have been prima fascia obvious to make the bone screws and other bone implant components out of bone because the ring itself is made of that material. Since the ring itself is made of bone material, it would have been obvious to make the other parts of the implant out the same material because it would have all the advantages and purposes that led Boyle to make the bone ring out of bone or composites of bone.

With regard to claim 155, it is the Examiner's position that it would have been prima fascia obvious to have more than two bone screw openings since both one and two bone screws and their openings are taught by Boyle.

Claims 36-42, 120-126, 166, 168-170, 173, 181, 206, 221, 241, and 281 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boyle et al in view of Thalgott as applied in the rejection of claim 1 above in further view of the suggestions of Boyle (US 6,277,149). Boyle et al fails to disclose the types of growth promoting substances claimed. However, the Examiner posits that the type of growth promoting

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substance would have been prima fascia obvious over Boyle et al because there is no criticality for such types shown or demonstrated. For example, in column 4, lines 10-13, Boyle discloses putting bone growth material into the opening (26). The specific type of bone implant material claimed would amount to a substitution of a functionally equivalent bone growth material for another one as disclosed by Boyle. For this reason, it would have been prima fascia obvious to an ordinary artisan to substitute one bone growth material for another since the other one would function equally well.

Claims 23, 24, 107, 108, 176, 196, 216, 236, 256, and 276 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boyle et al (US 6,277,149) in view of Zdeblick et al (US 5,669,909). Boyle et al meets or renders obvious the claim language but fails to disclose more than one bore through the upper and lower surfaces as claimed. Zdeblick et al, however, teaches that it was known to have more than one hole in similar implants; see the figures. Hence, it is the Examiner's position that it would have been obvious to have two or more holes in the Boyle et al implant for the same reasons that Zdeblick et al has the same and in order to promote greater ingrowth.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant should specifically point out the support for any amendments made to the disclosure, including the claims (MPEP 714.02 and 2163.06). Due to the procedure outlined in MPEP 2163.06 for interpreting claims, it is noted that other art may be applicable under 35 USC 102 of 35 USC 103(a) once the aforementioned issue(s) is/are addressed.

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Applicant is respectfully requested to provide a list of all copending applications that set forth similar subject matter to the present claims. A copy of such copending claims is respectfully requested in response to this Office action if the application is not stored in image format (i.e. the IFW system) or published.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Paul B. Prebilic whose telephone number is (571) 272-4758. He can normally be reached on 6:30-5:00 M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, McDermott Corrine can be reached on 571-272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Prebilic Primary Examiner Art Unit 3738